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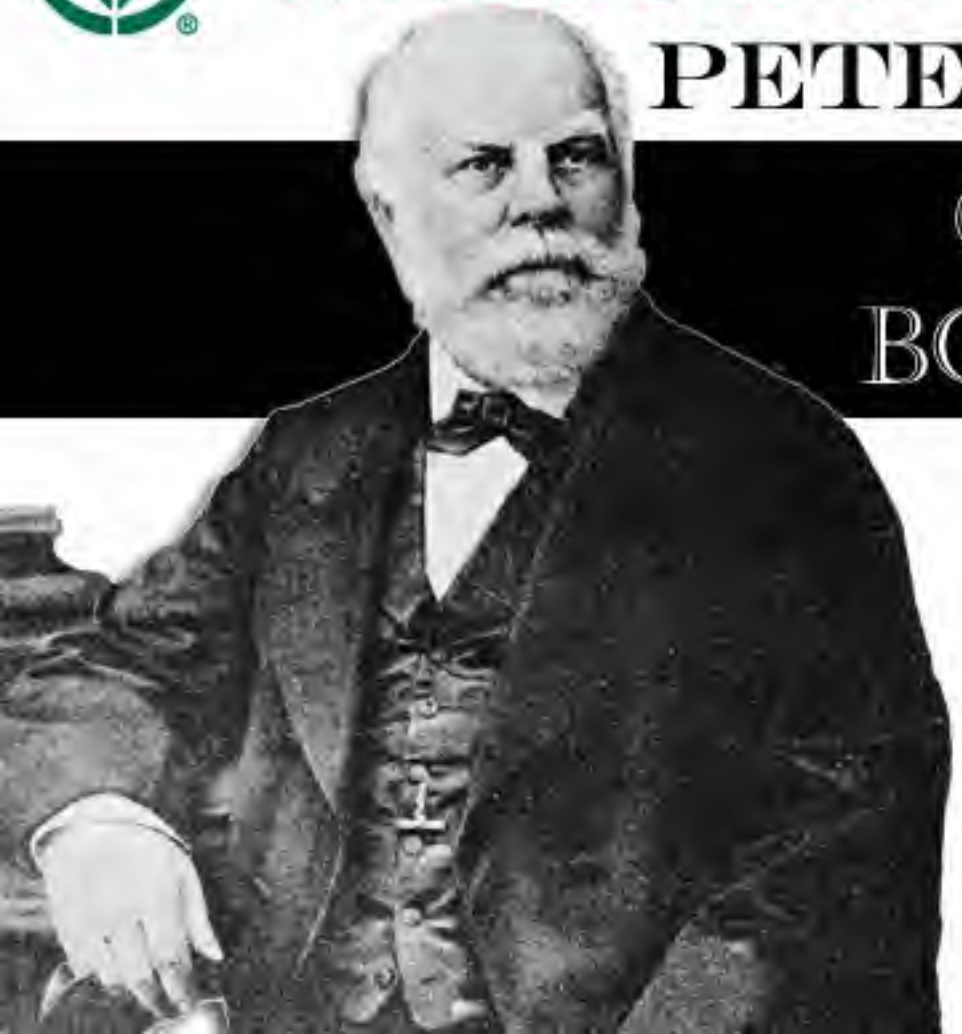

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Aug 25 1863

Pinus leiophylla

east of Zamora, Western Mexico,

Dr Gregg No 821. May 12 1849

X 415

0.030

Smallest

0.036

Largest

X 10

X 4

0.035

mean size

mean 0.034

0.030 – 0.036

6 involv. Bracts

sometimes 1 or 2 small ± Rudimental

all very regular & symmetrical ones

JONES & LETCH
Druggists
Cor. Fifth & Market Sts. St. LOUIS, Mo.

axis of male inflorescence 1 inch long (not
ament (not fully developed apparently)
6 lines long with 6 (1-2 small
intermixed scales of the) short rosaceous
ovate lanceolate ones involucral only

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leaf 0.6 – 0.7 mm wide 821 Pinus leiophylla Aug 25 1863

Jasmon, & Gregg 821

Dry

soaked

×30

×280

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ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.
ALL THE NEW REMEDIES CONSTANTLY ON HAND

leaves 4–5" Index, long scarcely 1/3 the wide
sheaths. 5 lines long, divisions like
those of Stobus
fronts lanceolate, scarcely fringed,
3 l. long. divisions in the
second summer, long after
the fall of the sheaths

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0 1 2 3 4 5 6 7 8 9 10
cm
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Pinus leiophylla April 7 1871

Zamora, Mex. Dr Gregg May 12 1849 No 821

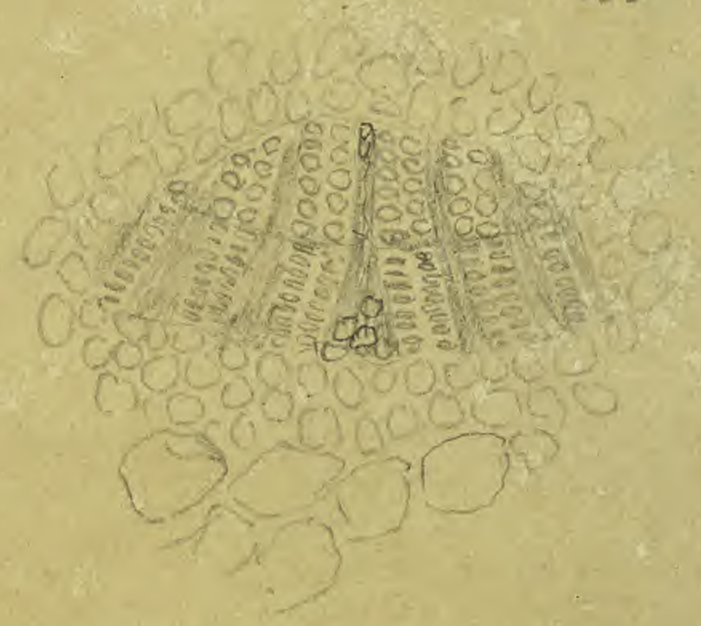
Fol. 3 – 4 in fascic.
0,6 mm diam

×30

×60

×30

×150



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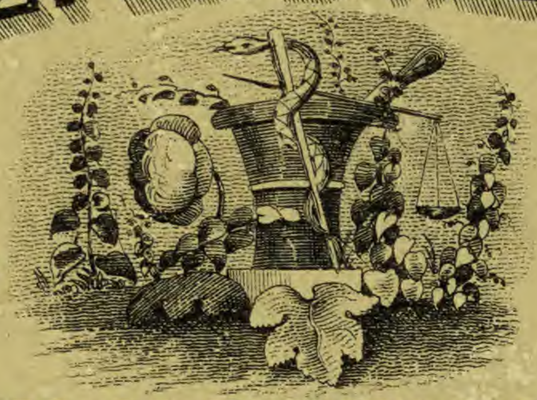
EDWIN R. SWAIN & Co.



Apothecaries & Pharmaceutists.

S.W. CORNER OF TWELFTH & OLIVE STREETS,

J.C. Wood. Olive St

ST LOUIS, Mo

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cm 0 1 2 3 4 5 6 7 8 9 10
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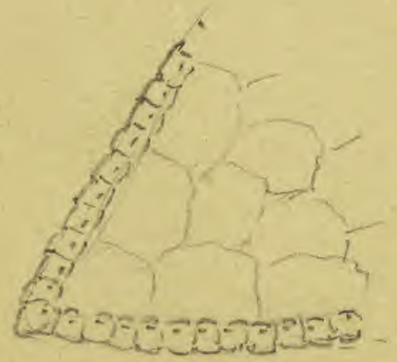
Leaf 0.56 mm thick

Pinus leiophylla

April 20 1878

Mexico Gregg 821 vera, vaginal fol 3 – 4½ coll. Coy

×30



×150

no hypoderm cells
nor ducts

×60

11060

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APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

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0 cm 1 2 3 4 5 6 7 8 9 10
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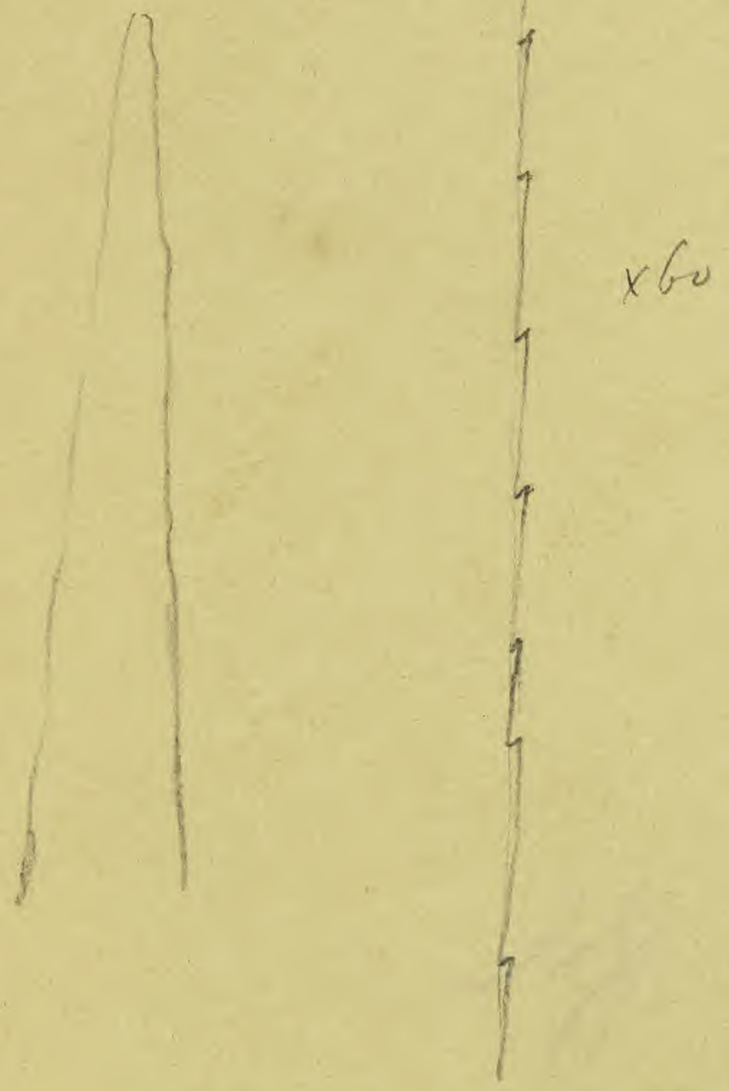
Asclepiadaceae fide Decne
P. Ocote Chico Royle

June 21st 1878

× 30



× 60

parts of the inside
hypocrateriform & small bunches
all around
and within sheath

4 series of stomata
on back
2 on each side above

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cm
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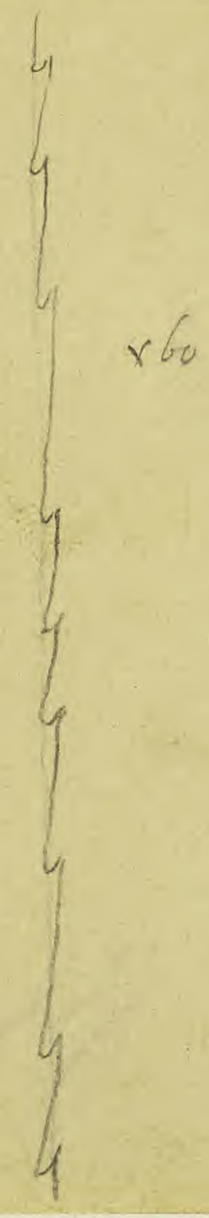
Pinus heterophylla

June 21 1878

630 Ehrenberg Ho Berlin



x 60

Ovate pyramidate,
indistinct, & apparently
wanting
about 6 series of stomata
on each of the 3 sides
hypoderm sparing in the corners
and in small patches all
around, consisting of 1 or 2 tiers

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38
39

tab 3 *A. tenuifolia*

tab 2 *A. filifolia*

112-6

0 1 2 3 4 5 6 7 8 9 10
cm
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Pinus tenuifolia Benth. ! April 6 1871

Chinantla, Hartweg 1841 No 620

×30 ×30 ×60 ×60

1878 May 25

1871

×30

×150

hypoderm thin walled cells more or less strongly
epiderm cells small
other some strengthening cells within sheath

11064

Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets

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cm 0 1 2 3 4 5 6 7 8 9 10
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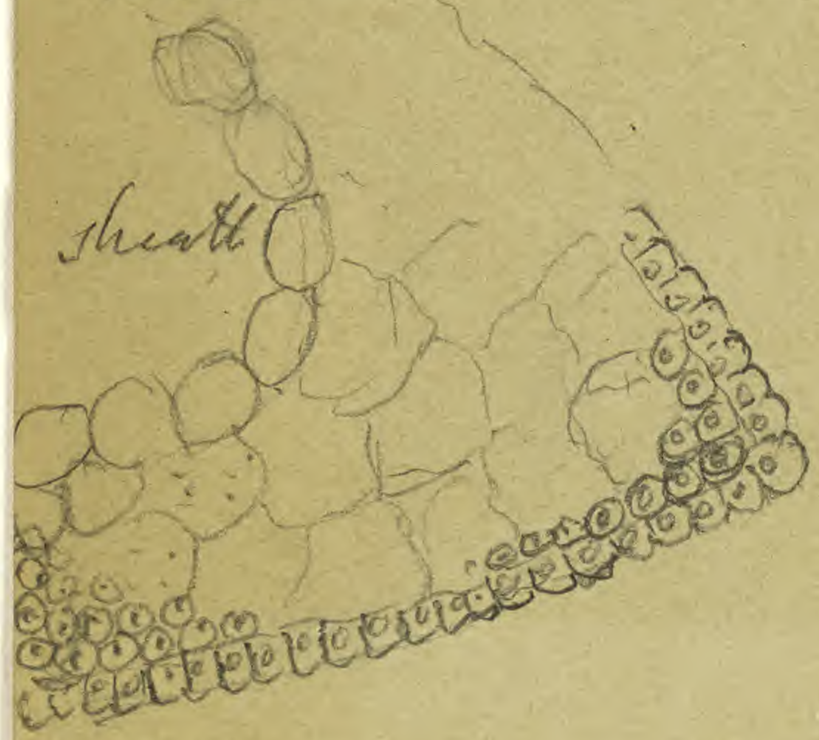
P. tenuifolia Bulb! May 29 1878
Hartweg 620

x 30

x150



x60

no ducts discernd
hypoderm + angles
and a large bundle
between sheath and
Dorsal epiderm
not quite close to
sheath.

0 1 2 3 4 5 6 7 8 9 10
cm
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Cor. 5th and Walnut St.

MASTBROOK'S PHARMACY

No. 1006 Olive Street.

PURE WINES AND LIQUORS FOR MEDICAL USE.

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GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
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Pinus teniifolia !

620. Hartweg leg

May 1st 1878

×75

×60

hypoderm cells
in the angles, and
some on dorsal side

leaf 0.8 mm wide

×30

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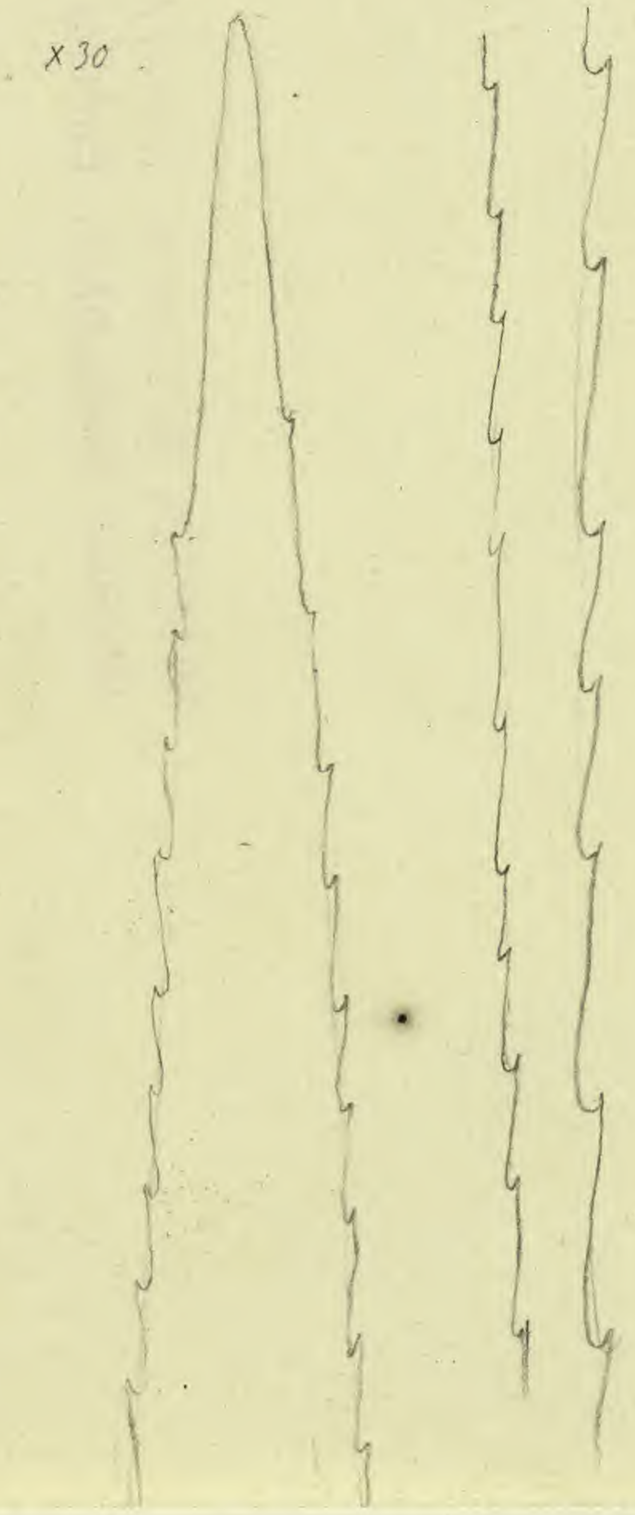
"Pinus filifolia"

April 6 1871

Host Bot Neapol, Jan 1869

x30 x60



x30

x30

0 1 2 3 4 5 6 7 8 9 10
cm
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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets

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cm 0 1 2 3 4 5 6 7 8 9 10
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Pinus ficifolia

May 29 1878

H. B Naples

1868

× 30

1868 & 1868

with specimen of 1868 I find a little more hyperdermis and ducts, larger, otherwise the same

2 lateral parenchymatous ducts, near sheath hypodermis scattered and sparing

× 60

0 1 2 3 4 5 6 7 8 9 10
cm
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Cor. 5th and Walnut St

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21 Feb 41

P. Montezumae

Hartwegii sp.

122-440

11069

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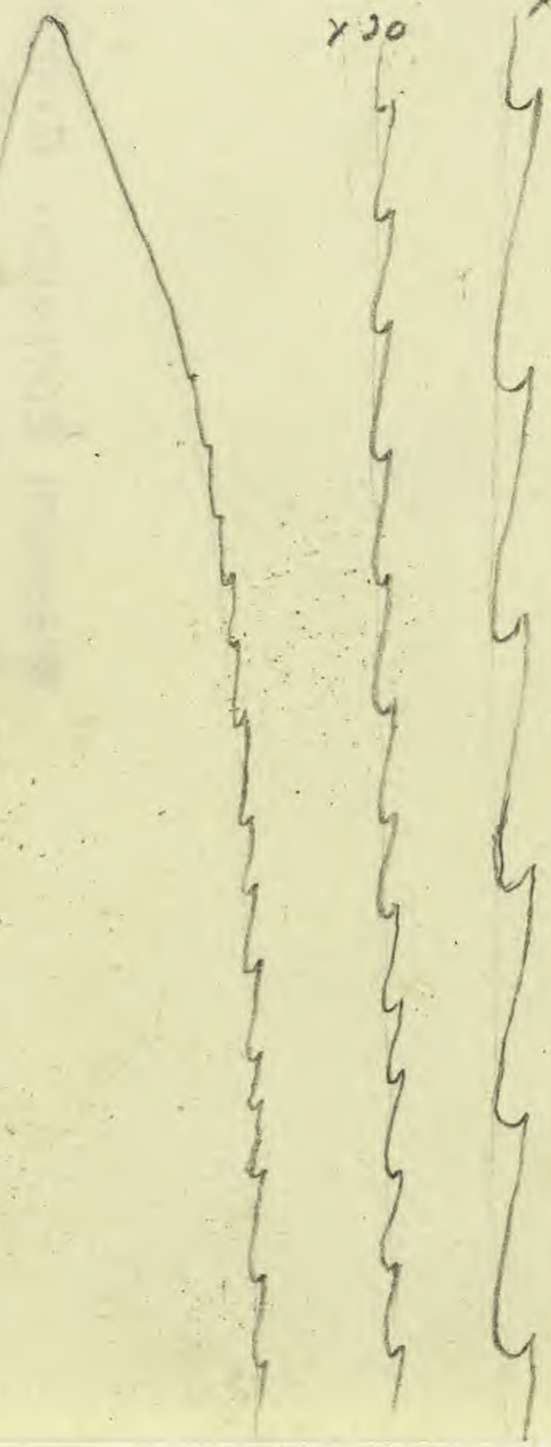
Pinus Montezumae

April 6 1871

Icones Generum (5 pol.)

C Ehrenberg ∴ H. Berolini Vol 6 t 8



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cm
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Leitch & Corlies

DRUGGISTS

SouthWest Corner Fifth and Market Streets

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0 cm 1 2 3 4 5 6 7 8 9 10
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tab 5.

40

P. Pseudo Strobus

117-21

0 1 2 3 4 5 6 7 8 9 10
cm
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"Pin Pseudostoma"

Hort Kew 1857

May 25 1878

small epidermal cells, very few, isolated hypoderm cells

ducts none, or one, parenchymatous.
hypoderm very sparing some few cells
also off some on other sheath

0 1 2 3 4 5 6 7 8 9 10
cm
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cm 0 1 2 3 4 5 6 7 8 9 10
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MISSOURI BOTANICAL GARDEN

P. Thompsoniana Royl
= Pseudotrol. fide Parlat

May 30 1878

×30

×60

hypoderm = sheath
very little area
parenchyma?
indistinct.

0 1 2 3 4 5 6 7 8 9 10
cm
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cm 0 1 2 3 4 5 6 7 8 9 10
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P. Bzeudostrobus

Hort Kew 1875

May 30 1878

x 30

x 30

Cross

part of leaf

x 60

cross

11074

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Pinus Pseudostrobus

Kew Gardens

May 1st 1878

x 30

leaf 0.7 mm wide

x 150

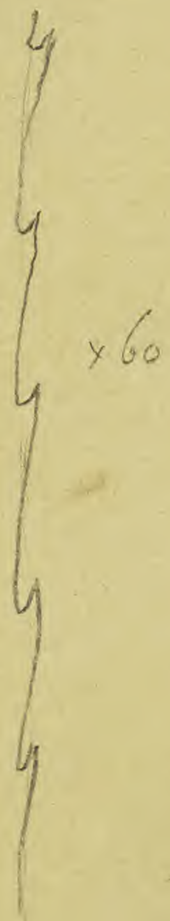
very few hypoderm cells

ducts parenchymatous or none

without hypoderm enclosure

x30

x 60



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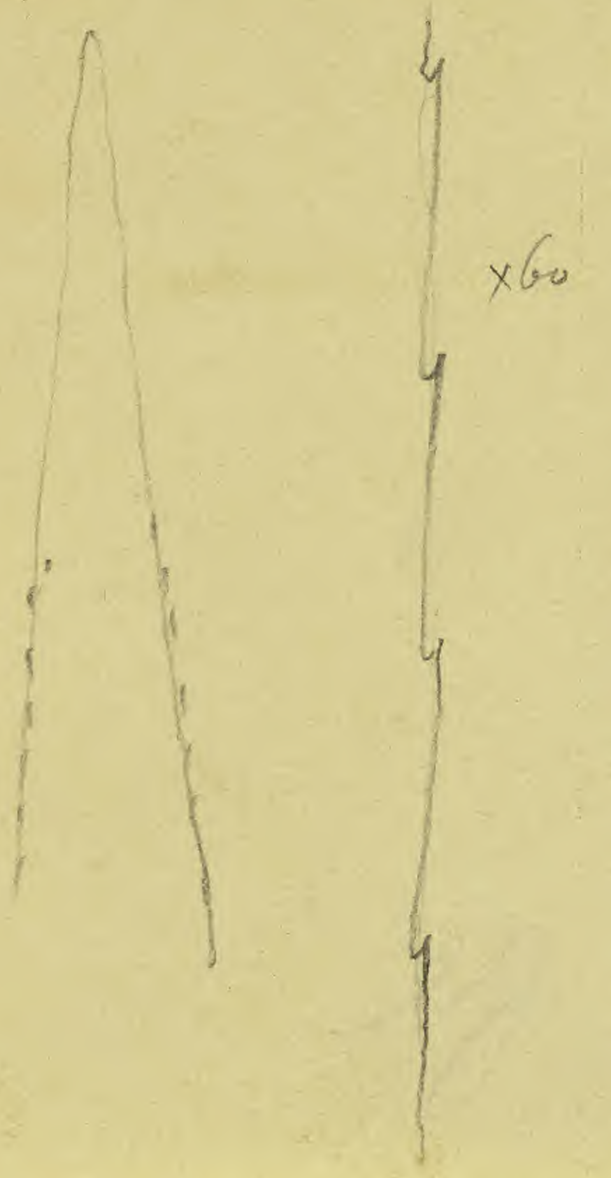
P. Antoiniana Royl

= Pseudostrobus f. de Parlat.

11 May 30 1878

Duct very small
= many sections invisible
very little hypoderm.
some well marked
with thin sheath



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